ē		The second secon	The second secon	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	170	corvice de de	
No.	Inv Qator	Institution	Subject	Amount	Date	. <u>O</u>	ition
70	FREUND, Jack, M.D.	Medical College	Correlation of multitechnical pro-		- C		
	Lecturer in Pharmacology	of Virginia	cedures performed on the peripheral		ند ارفت رابری در در سرس ای		
4	Assistant in Medicine		circulation of normal individuals in recumbent and erect positions				
			and after exercise before and after				7
. 19			sham and actual smoking.	17,435.00	3/15	10000000000000000000000000000000000000	生态之事
:							
71	SPAIN, David M., M.D.	Waldemar Medical	Study of host factors in experi-		ings of the Head of the		
	Pathologist	Research Founda-	mental induction of pulmonary tumors in mice.	12,050.00	3/14		
11.	t^{-1}	21011	The state of the s	15,030,00	, 3 / 17		
72	RIGDON, R. H., M.D.	University of	Study the effect of methylcholan-	and the F		rajaur sua.	
	Prof. of Pathology,	Texas, Medical	threne on the tissues of the duck.		5		
	Dir. of Laboratory of Experimental Research	Branch	To compare the effect of methylcho- lanthrene on different tissue with				
	Experimental Research	* " " " " " " " " " " " " " " " " " " "	emphasis on the reaction in the				경험하는 사람
			trachea when compared with the skin				
			of the body and the web of the foot.	5,390.00	3/21		二声 三部
73	FARR, Wanda K., Ph.D.	Private Consult-	Applyone of tone and marine from to				
, 3	Research Consultant	ing Laboratories	Analyses of tars and resins from im- pinged and settled cigarette smoke b				V. 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			means of microscopical, microchemica				
	:		and electron microscopical technique	s.9,650.00	3/14		
74	LEUGHTENBERGER Cecilie	Western Reserve		•=•			
17	Ph.D., Asso. Prof. of	University, In-	Quantitative analysis of nucleoprotes in tissues from animals subjected to	ins (i.e.		din.	
	Cytology, School of	stitute of	tobacco smoke by microspectrophotom-			1776	
	Medicine	Pathology	etry and interference microscopy		. n 1 3	a : - ///	7
			correlated with cytological and hiso-		(34) /2	202	
			logical studies.	23,199.24	3/14	9.3	
75	WALKER, Sheppard M.	University of	Effect of smoking and of blood	1,1	V	والمقالم المراس	
	Associate Professor	Louisville,	levels of tobacco products on the))		
	of Physiology	School of Medicine	heart.	10,220.00	4/1		
76	HEALY, Madeline E.	Brusch Medical	Using the blood allergen diagnosis				
. •	McMahon, R. N.	Center	method of Healy to measure immunity		r 🌓 📑		
		<u>.</u>	and characteristics of 1000 individu-				
		1	als, smokers and non-smokers of vary-	• 1848 • 1844			4.5
			ing ages, sexes, susceptibilities,				
		5	habits, hobbies, temperaments, states of life, and occupations. This "Healy	, n			
	•		test method study will furnish many	r sweets. Historia	Line, S		
			clues to the problem of disease in ge				
			eral. It is a biochemical test, a tru				
	꽃 뭐야. 요그램은 각 바다닷		scientific test, and the only one car ble of measuring autonomic response.		A/9 =	many and a second	
			220 01 medauting duconomic responses.	121,400.00	70.0		



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No.	restigator	<u>Institution</u>	<u>Subject</u> <u>Amount</u>	<u>Date</u>
101	ARMEN, Robert N., M.D., Chief, Medical Service; COHEN, Sheldon, G. M.D., Attending in Allergy	Veterans Administra- tion Hospital, Wilkes-Barre, Pa.	The effect of forced inhalation of 5,250.00 tobacco smoke on the cardiovascular system and pulmonary tissues of normal and tobacco sensitized rabbits.	6/17
102	CORNMAN, Ivor, Ph.D., Head of Dept. of Cellular Physiology	Hazleton Labora- tories	The nature of effects of tobacco 26,800.00 smoke acting directly upon tissues.	6/20
103	CANNATA, Benjamin, V. M.D., Physician & Surgeon	Benlee Research Laboratories	lst Phase. The removal of tars and 595,000.00 its derivatives from tobacco smoke. 2nd Phase. A complete study of the entire respiratory tract on animals who have been subjected to tobacco smoke with the tars and its derivatives removed.	6/23
104	BROZEK, Josef, Ph.D., Associate Professor	University of Minnesota, School of Public Health, College of Medical Sciences	A quantitative study of biological 15,000.00 characteristics of men associated with differences in their tendency to adopt and maintain different smoking habits.	6/27
105	DEICHMANN, William B., Chairman and Professor of Pharmacology	University of Miami, School of Medicine	Determination of the effects of ab- 20,636.75 sorption of tobacco extracts from the oral_cavity of the mouse and dog on the incidence of cancer of the urinary bladder, and as influenced	7/8
	T003232446		by diets containing a normal and an a elevated content of fat.	
106	PORDY, Leon, M.D., Research Assistant in Cardiology	The Mount Sinai Hospital	Clinical evaluation of the cardio- 12,765.00 vascular effects of tobacco smoking.	7/25
107	BLADES, Brian, M.D., Professor of Surgery	ton University School of Medicine	The effects of stress on the produc- 16,440.00 tion of lung cancer by direct exposure of lung tissue to high concentrations of tobacco smoke.	7/25
108		Foundation and The Hospital of the Good Samaritan	Effect of tobacco and/or its con- 6,900.00 stituents upon the vascular system of man in health and in various disease states.	8/1

Disposition



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<u>No</u> .	Investator	Institution	<u>Subject</u>	Amount .	<u>Date</u>
77	COOPER, Mervin and Dudley, Optometrists, Res. Dir. & Business Officer respectively	Glaucoma Research	To conduct research investigations to ascertain the merit of the theor (Copyright #Al61437 - Class A) that habitual smoking of cigarettes is beneficial in the prevention and relief of simple chronic glaucoma.		4/15
	$\frac{\mathbf{v}}{\mathbf{v}} = \frac{\mathbf{v}}{\mathbf{v}} + \frac{\mathbf{v}}{\mathbf{v}} = \mathbf{v}$				
78	COLEMAN, Frank Philip, M.D., Asst. Prof. of Clinical Surgery	Medical College of Virginia	Effects of prolonged inhalation of cigarette smoke on the respiratory tract of sheep.	135,765.15	4/15
79	KIRSNER, Joseph B.,	The University	Effect of tobacco smoking upon		
	M.D.	of Chicago	basal gastric secretions in man.	18,375.50	4/20
80	FELLOWSHIP PROGRAM	50 institutions	Subjects to be chosen by the individual institutions.	25,000.00	
81	MC CARTHY, Francis P. M.D., Professor of Oral Medicine	Tufts University Dental School	Relationship between tobacco smoking and the incidence leuko- plakia of the oral cavity and the esophagus.	8,735.00	5/2
00	0407 AW 4411 0 44 5				
82	SASLAW, Milton S., M.D., Director of Medical Research	Cardiac Hospital	Effects of smoking on beta hemo- lytic streptococci.	8,650.00	5/2
83	SCHOUR, Isaac Dr.	University of Illinois, College of Dentistry	Effects of smoking on oral tissues of young adults. (Longitudinal and cross-sectional studies.)	18,597.69	5/5
84	SCHOUR, Isaac Dr.	University of Illinois, College of Dentistry	Histologic changes in the oral, pharyngeal and nasal tissues of experimental animals subjected to		
			tobacco smoke.	18,137.69	5/5
85	SOROF, Sam, Ph.D. Research Associate	The Institute for Cancer Research & Lankenau Hospital	Chemical and physical studies on the tissue proteins involved in chemical carcinogenesis.	14 423 00	
r		Research Institute		14,423.00	5/11

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<u>No</u> •	<u>Investigator</u>	<u>Institution</u>	Subject	Amount	<u>Date</u>	<u>Disposition</u>
86	RITTENBERG, Sydney C. Professor of Bacteriology	University of Southern California	Studies on the mechanism of bacterial metabolism of nicotine and related compounds. The ultimate goal of the project is the elucidation of the intermediary metabolism of nicotine oxidation.	4,104.00	5/1 <u>2</u> =	
87	BACHRACH, William H., M.D. Chief, Gastroenterology Section, V.A. Hospital	University of Southern Calif- ornia School of Medicine	An investigation into the effects of smoking on gastrointestinal functions and symptoms in health and in digestive diseases.	10,600.00	5/16	
88	KLASSEN, Karl P., M.D. Prof. of Surgery; Chief, Div. of Thoracic Surgery	Ohio State Uni- versity Medical Center	Influence of cigarettes upon the histology of the bronchial mucosa.	5,000.00	5/20	
89	THOMAS, Dr. Caroline Bedell, Asso. Prof. of Medicine	The Johns Hop- kins School of Medicine	The significance of different in- dividual patterns of circulatory response to cigarette smoking.	1,680.00	5/20	
90	CRANSTON, Hoy A. Director	Laboratory of Polarographic Analysis	Treatment of human neoplastic metastases with specific immune sera.	46,342.00	5/16	
91	BING, Richard J., M.D. Prof. of Experimental Medicine and Clinical Physiology	The Medical College of Alabama	The effect of smoking on the coronary blood flow and certain phases of myocardial metabolism in patients with arteriosclerotic or hypertensive cardiovascular disease.	11,110.00	5/24	
92	TRAVELL, Janet, M.D. Asso. Prof. of Clinical Pharmacology	Cornell Uni- versity Medical College	Electrocardiographic effects of nicotine in the rabbit with experimental coronary atherosclerosis.	8,910.00		
93	WECHSLER, Richard L., M.D. Clinical Physiologist OSTACSCOOT	Montefiore Hos- pital Institute of Research	blood gases, blood pH, arterial pulse pressure curves, electrocardio-		-/00	
	OAVEC COUP		grams, and electroencephalograms.	10,000.00	5/28 2	

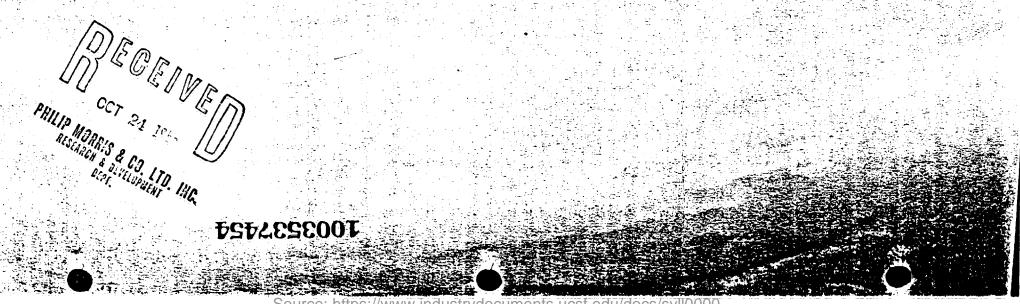
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No.	Investigator	<u>Institution</u>	Subject Subject	Amount	Date	Disposition	
29A	HOMBURGER, Freddie, M.D., Dir., Cancer Res. & Cancer Control Unit of Tufts at N. E. C. Hospital	New England Center Hospital (revision of 29 submitted through Tufts University)	A study on the effects of various components of tobacco and cigarette paper upon the behavior of transplantable tumors in various species including the behavior of human tumors transplanted into animal				
94	PATTERSON, John M., Assistant Prof; SMITH, Walter T., Asso. Prof.	Kentucky Research Foundation for U. of Kentucky	Fundamental approaches to the evaluation of tobacco in regard to quality and physiological properties.	28,990.00 30,883.52			The second of th
95	BUTT, E. M., M.D., Chief Pathologist, Prof. of Pathology at U. of So. Cal.	Los Angeles County Hospital (Univ. of Southern Califor- nia)	It is proposed to study the trace metal storage of pulmonary and liver tissue by spectrographic and chemical methods. (see application)	13,687.44	6/8		18 1.34 1. The second
96 97	CAMERON, John A., Ph.D. Professor of Anatomy WOOD, J. Edwin, M.D.	Baylor University College of Dentis- try Massachusetts Memo-	Study of the effects of tobacco smoke and its component gases on living mammals. The effect of prolonged inhalation of	3,500.00	6/9		
	Instructor in Medicine at Boston University School of Medicine	rial Hospitals, Evans Memorial	tobacco smoke and of <u>prolonged</u> abstinence from the use of tobacco on the peripheral vascular response to acute inhalation of tobacco smoke in man.	4,000.00	6/16		
98	HELLER, John H., M.D. Executive Director	New England In- stitute for Medi- cal Research	Investigation of the relationship of surface charge of inhaled particles on their retention in the lung.	15,525.00	. 1 (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2		
99	WACHTEL, Henry K., M.D. Scientific Director and President	Chemical Hormone Corporation	Investigations concerning the relations existing between cancer disease and hormonal disturbances of the pituitary gland.	42,000.00	1/12		
	STEINHAUS, Arthur H., Professor of Physi- ology	George Williams College	Does tobacco smoke influence the production or action of sex hormone. (see original application)	10,065.00	6/16		
	T00323242S						1

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	,	No.	Inve igator	<u>Institution</u>	Subject	Amount	Date	Disposition
	1 11	29B	HOMBURGER, F., M.D.,	Tufts College	A study of the effects of cigarette	25,760.00	8/6	TIA Conte
		:	Director	Medical School, Dept. of Surgery	tars upon the behavior of transplant- able tumors in rodents employing a new			Red John
				Dept. of Jurgery	technique of intrauterine tumor trans-			7.l
-					plantation.	to an and		7
-		109	GOLDSCHMIEDT, Henry,	Sydenham Hospital,	Investigation of the saliva of smokers	3,480.00	9/15	₩
			Ph.D., Research	Dept. of Dentistry	and non-smokers with regard to sodium thiocyanate content.		€ .	
			Fellow		Entodyanase bonsens.			
		110	WILLIAMS, William L.,	Institute of Patho-	A proposed study of the effect of multiple respiratory infections on	58,517.50	8/25	
			M.D., Assistant Prof.	Tennessee	the production of cancer of the lung.	i Tananan		
					A qualitative and quantitative study of		0/06	
-	;- ;:	4A ;	WENDER, Simon H., Research Professor of	University of Oklahoma Research	the individual polyphenol content of	8,970.00	0/ 20	
			Chemistry	Institute	cigarette tobacco and of the smoke and			
	- 1 - 1				"tars" resulting from eigarette smok- ing, and also to study the fate of the	30		
, F	• • •	-			compounds in the animal respiratory			
					system.	6		
		111	PEARLMAN, Samuel J.,	Michael Reese	To determine the normal by study of ex-		9/21	-: -:
. 4	5	.*.	M.D., Attending Sur-	and Throat Dept.	foliated cells in the area of the nose throat and bronchi, in patients of all		•	
e [*				ages, and in both sexes. To transmit		* 150	
					these findings to the ear, nose and throat specialist by way of his special			
1					journals. To make a limited study of		::	
					older persons, primarily non-smokers as heavy smokers.	nd	2	
	erie e. George					1. + + - + - 1 1 	.4	
) 7 -=:	112	ALPERT, Louis K., M.D., Glinical Prof-	The George Wash- ington University	Observation of changes in normal human bronchial epithelial cells grown in tis		9/27	
			essor of Medicine	ing.on onlyerally	sue culture with prolonged exposure to			
	Land	i kunggi. Nan Santa			extracts of cigarette smoke.		(A) (1)	
7			PATTERSON, John L.,		Detection and prognostic significance	6,800.00	10/3	
			M.D., Assoc. Professor of Medicine	Virginia	of early obstructive pulmonary disease			
						17 000 00	10/2	
		114	SMITH, William E., M.D.	New York Univer	Experiments pertaining to lung tumors. 1. Exploration of specificity of a rapi	d	10/3	
				Medical Center	test for carcinogenicity of chemicals.			
				(now)	2. Search for a virus in pulmonary adenomas of mice. 3. Investigation of diet	ary		
	3				deficiency of choline in relation to 1	ung		
ď	***	4 A P			tumors	Section 1		



No.	Inveggator	Institution	Subject	Amount :	<u>Date</u>	D O
115	THIENES, Clinton H., M.D., Ph.D., Director	Institute of Medical Research, Huntington Memorial Hospital	Effect of daily nicotine administra- tion upon adrenal glands, and upon mortality of the newborn.	6,925.00	10/10/55	B
116	KEYS, Ancel, Prof. & Director, Laboratory of Physiological Hygiene	University of Min- nesota, School of Public Health	Characteristics of men, including smoking, in populations differing in the incidence of coronary heart disease.	8,050.00	10/21/55	
117	RICHARDS, Victor, M.D., Prof. of Surgery	Stanford University School of Medicine	A comparative study of the effects of whole and fractionated extracts of cigarette smoke and those of known carcinogens on I. The cytology and nuclear DNA content of epidermis in various strains of mice. and/or II. The cytology and nuclear DNA content of lung and epithelium of the bronchial tree of mice and hamsters.		12/5/55	
118	HIGHTOWER, N. C., M.D., Ph.D.	Scott, Sherwood and Brindley Foundation for Medical Educa- tion and Research	Determination of the influence of smok- ing on gastric secretion and gastric motility in normal individuals and patients with duodenal ulcer.	2,369.00	12/5/55	
119	CHRISTENSEN, Kermit Professor of Anatomy	St. Louis Univer- sity School of Medi- cine	The relation of nicotine administration to the secretion (or accumulation), identification, quantitation, and localization of noradrenalin and adrenalin compounds in the walls of blood vessels.	10,680.00	12/15/55	
120	RIGLER, Leo G. M.D.	City of Hope Medi- cal Center	A study of the development of carci- noma of the lung in smokers and non- smokers subjected to the influence of smog.	76,732.00	12/20/55	
121	YADOFF, Oleg, President and Scientific Director	Foundation for Bio-Physico Ressearch	Experimental research on the effect of tobacco, in particular nicotine, on tumor cells and cancer formation in small tropical Guppies, an aquarium-		1/3/56	
	T003231422		raised marine animal especially selected for this purpose.	7		

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• <u>No.</u>	Investigator	Institution	Subject -	Amount	Date	Disposi
	요. 					经国际中间
122	LOWELL, Francis C., M.D.	Evans Memorial.	To determine in the cou	rse \$9,900	1/3	
	Member, Evans Memorial	Massachusetts	of the next la or two		· '/	
	Associate Prof. of Med.		the incidence in an inc			
	Boston U. Sch. of Med.	Hospitals	population of chronic p			
			disease (especially emp			
			and asthma), and its re			
			to occupation, smoking			克里斯 数点
1* 1. *		그를 깨끗했다고 하면 되는데	history of certain dise	ases.		河流 医温温
123	TACORCON Towns Unit	Name Vand	A	4 000		
129	JACOBSON, Jerry Hart,	New York Eye and	A comparison of electro		-1/10	
	M.D., Director, Div.	Ear Infirmary	graphy as a means of ev			
- 1 to 1 t	of Electrophysiology		the effect of vasoconst			
		그러 요즘이 없이 좀 그렇는 것이	drugs upon cerebral and			
ta de la companya de			circulation to other te			
			for this determination.			
104	DODOTA Alexandra					
124	BOROTA, Alexander, M.D.,	· ·	How smoking effects the		3/7	
	Assoc. Attending	Memorial Hospital	mucosa of geriatric pat			
	Dermatologist	and Home	a) Does smoking alone p			
			cancer or precancer of			
			mucosa? Yes or no. b)			
			smoking alone predispos			
			cancer or precancer for			
			of the oral mucosa? Ye	s or no.		
			c) The role and importa	nce of		
			other cancerogenic fact	ors in		
			the domestic and occupa	tional		
		- 배우드릴리 유민이 살이 돌아 된다. 그렇	environment?			
26A	FULTON, George P., Ph.D.	Boston University	Direct observations on	blood \$14.720.00	3/12	
	Professor of Biology	Graduate School.	vessels during exposure	to	. y	
		Dept. of Biology	constituents of cigaret			
			smoke.			
			교 - 그 그 많이 본석원에 다리되는 그를			
125	ECKSTEIN, John W., M.D.	State University				
	Assistant Prof. of		Responses of the Periph		3/12	
	Internal Medicine &	of Iowa, College	Veins in Man to the Inh	alation		
	Chief, Peripheral	of Medicine	of Tobacco Smoke.			
	Vascular Laboratory,			나는 그 원인 경기를		
	Cardiovascular Research	JATAN				
	Laboratories.	03232422				
一个人的 经基础证券	, = : ::= = = = = = = = = ;			4.40.40.78(金色色谱 贝门特特特勒		

No.	Investigator			
1100	<u> </u>	Institution	<u>Subject</u> — Amount	<u>Date</u> <u>Disposit</u>
126	BONNER, James, M.D.	California Institute of Technology	Enzymatic study of methyla- tion reactions in plant \$10,508	3. 3/20
			tissues.	
127	TIECKE, Richard W. D.D.S., Assoc. Prof.	Northwestern Univ.	The Role of Tobacco in Oral Cancer. 8,573	3. 3/20
	of Pathology			
128	LARSON, Paul S., Ph.D. Professor of Pharmacology	Medical College of Virginia	Enzymatic Transformations 29,080 of Nicotine.). 3/20
82A	SASLAW, Milton S., M.D. Director of Medical Research.	National Children's Cardiac Hospital	Effects of Smoking on 8,650 Beta Hemolytic	• 5/2
	STREITFELD, Murray M., Ph.D., Bacteriologist		Streptococci.	
129	KAISER, E.R., Director of Research	American Society of Heating and Air Conditioning Engineers,	Tobacco Smoke Odor and 7,500 Ventilation.	• 4/4
		Inc.		
130	HOLLAND, Robert H., M.D. Chief, Thoracic Surgery	Veterans Administration Hospital	Effect of tobacco smoke 17,500 on the respiratory passages of the rabbit.	• 4/11
121	DICTON D. H. M. D. D	Helmandlan of Taxas		
131	RIGDON, R.H., M.D., Prof. of Pathology - Director, Laboratory of Experimental Pathology.	University of Texas Medica <u>l</u> Branch	a) Compile all reference \$8,567 pertaining to cancer of the lung.	•50 4/2
			b) Prepare paper on cancer of the lung between 1900 to 1930.	
			c) Prepare paper on cancer of the lung between 1930 and 1935.	
	T003235428		d) Check cases of cancer of the lung so diagnosed in hospital with ultimate diagnosis as recorded on	
			death certificates.	Extra Addition

Nđ.	Investigator	<u>Institution</u>	Sect	Amount	<u>Date</u>	DISPOSI	tion :
132	OSTFELD, Adrian M.,	University of Illinois	A biomicroscopic assay of	\$6,300.	4/19		
	M.D. Assistant Prof.		bulbar conjunctival				
	of Preventive Medicine		vascular reactivity in the same				
			hypertension employing	经产业营销		130	
			topical and parenteral				
			pharmacologic agents.				
: ,							
133	PERKINSON, Jesse D., Jr.	The University of		\$11,730.	4/19		
===	M.D. Associate Prof.	Tennessee	leaf metabolism to degree				
	of Chemistry		of hydration.				